H	\ri <i>71</i>	ntal	Pare	llax.
110) I I Z (muai	1 21.17	ulax.

April 20	3.3	May 6	3 .0	May 22	2.8
24	3.5	10	3.0	26	2.8
28	3.1	14	2.9	.30	2.4
May 2	3.1	18	2.9		

Observations of Wilmot's Comet. By Mr. Maclear.

Mr. Maclear's absence from the Observatory, while engaged in the measurement of an arc of the meridian, has occasioned a considerable delay in reducing the observations of this comet.

The places of the comet are corrected for refraction, and the log. factor is annexed to each, which, when added to the log. hor. parallax in seconds of space, will give the log. correction in right ascension and north polar distance, in time and arc respectively.

The catalogue of the stars of comparison is appended.*

CAPE OF GOOD HOPE.

(Mr. Maclear.)

1844.	Cape M.T.	R.A.	Log. Fact.	N.P.D.	Log. Fact.	Obs.	Star.
Dec. 24	8 17 29	19 43 11.86	+8.8384	128 12 17.1	+9.7346	2	1
27	8 14 23	20 16 49.16	•8637	131 3 41.0	•6756	10	2
	8 37 35	17 0.34	·8571	131 4 27.7	7221	10	3
28	8 19 14	28 30.05	•8707	131 50 48.8	•6413	10	4
,	9 7 33	28 58.68	.8519	131 52 36.5	•7601	8	4
30	8 38 34	•		133 10 14.1	•6644	6	5
	8 38 57	52 54.72	·8781			7	5
	962	53 8.60	8699			9	6
	9630			133 11 0.9	7239	8	6
	9 31 50	20 53 22 03	•8562	133 11 24.8	•7706	6	5
31	8 31 24	21 5 14.12	•8838	133 41 11.1	6232	10	7
1845.	9 8 33	5 33.51	·8 ₇₅₉	133 41 54.3	•7090	10	7
Jan. 1	8 42 57	17 52.05	•8867	134 6 43.3	•6279	9	8
-3	9 20 28	21 43 32.37	.8876	134 40 29.4	•6733	5	9
·5	9 58 45	22 9 13.66	.8819	134 50 48.0	7178	7	10
6	8 14 9	20 52.14	•8762	134 47 45.7	•3761	10	11
	996	21 20'25	•8920	134 47 37.7	*5745	10	12
•	9 34 12	21 33.45	•8909			12	11
	9 45 58			134 47 21.8	•6710	12	11
	zo 3 6	21 48.59	*8832		-	12	11
9	9 1 59	57 46.20	.8809	134 7 3.5	4821	12	13
	9 25 21	57 57.78	·8861			10	13
	9 40 13			134 6 29.2	+9.5977	14	13
	9 58 20	22 58 13.79	+8.8859			8	13

^{*} The columns R.A. Comet-R.A. Star; and N.P.D. Comet-N.P.D. Star, are omitted, though given by Mr. Maclear.

	Cape M.T.		og. Fact.	N.P.D.	Log. Fact.	Obs.	Star.
^{1845.} Jan. 11	ñ m s 924. I2	h. m. s 23 20 52*27	+8.8769	133 16 47.8	+9.5120	10	14
12	9 14 46	31 46.43	•8678	132 46 3.1	•4615	10	15
	9 54 17	23 32 3.50	·8771	132 45 17.5	•5860	10	16
1:5ì	9 26 43	0 2 28.99	.8522	130 54 35.8	•4619	10	18
J	9 58 4	2 40.26	·8624	130 53 49.8	•5596	IO.	17
1:6:	10 34 4	12 20.42	·8601	130 10 32.7	•6378	14	19
17	10 13 24	21 15.02	•8540	129 27 9.0	•5846	6	20
1:8:	9419	29 43.50	*8376	128 42 36.9	4873	15.	21
19:	9 49 12	38 4.28	•8347	127 55 25.6	` 5077	I	22
	10 19 42	0 38 15.38	•8442	127 54 26.0	•5898	2	22
2.2	9 4 24	1 0 39.20	•7824	125 31 34.0	•3660	ТO	23
	9 55 28	0 54.76	•8189	125 29 51.0	*5220	10	23
24	9 3 13	14 17.40	•7668			12	24
·	9 21 26			123 52 10.0	•4328	16	24
	10 12 54	14 36.41	•8154			12	24
2:5:	8 54 28	20 38.21	.7504	123 3 39.1	.3281	10	25
-	9 30 23	20 47.48	•7.851	123 2 23.7	•4642	I,O	26
2.7	9 49 2	32 49.33	.7878	121 23 37.6	• 5227	. 8	27
28	9 41 9	38 24.33	•7775	120 35 31.2	.2104	12	28
2.9	9 41 14	43 47.05	.7726	119 47 20.1	•5174	12	29
30	9 51 33	48 59.60	•7760			12	30
31	9380.	53 55 49	•7620			16	31
	10 I 9		_	118 12 39.4	.2113	16	31
	10 25 23	54 5.35	•7897			16	3.1
Feb. 1	9 39 6	58 42.56	'759I	6	6 -	12	32
	10 0 54	_	•	117 26 35.5	•5765	10	32.
	10 23 5	1 58 51.47	•7854			12 16	33
3.	9 28 17	2 7 42.89	*7432	FM TO!#	•5697		33
	9 49 55			115 57 10.7	3097	14 16	33 33
	10 12 25	7 51.07	*7744	•		16	33 34
4	9 10 9	11 57.32	•7216	115 13 58:5	•54.62		3 4 34
	9 32 3		600	1,15 13 50.5	34,02	16	34
_	9 53 24	12 5.56	•7603	112 28 14.6	•5426		35
8	985		•7366	112 20 14 0	24,4	30	35
	9 34 33	27 45.67	7300	112 26 46.9	.6163		35
	9 58 15	47 40145	90766	112 20 40 9		16	36
9	9 12 28	31 20.25	•7133	111 48 6.8	•5819		36
	9 30 19	27 26:27	.7481	111 40 00	29	16	
	9 51 45	31 26.21 34 52.63	•7254			14	37
10	9 25 55	34 52 03	/~34	111 9 6:7	•6088		
	9 44 26 10 6 29	34 58.50	•7556			8	
-6	8 56 57	2 53 55.80				12	
16	9 10 60	# 55 55 ⁸⁰	, 0 0090	107 35 38.9	+9.6097	10	
•	9 10 00			, 55 5-7			

1845.	Cape M.T.	R.A.	Log. Fact.	N.P.D.	Log. Fact.	Obs.	Star.
Feb. 16	9 24 24	2 53 59.66	+8.7188	0 / "		12	39 ^x
18	8 54 11	59 40.78	•6864			12	40
•	9 17 13			106 30 24.9	+9.6285	10	40
	9 37 34	2 59 45.76	.7305			12	40
27	8 19 16	3 55 35.18	•6476		•	20	41
	8 40 56		•	102 12 51.5	•6503	12	41
	9 2 56	22 36.89	.7014			20	41
28	8 30 7	24 52'27	•6647	•	*	12	42
	8 46 22			101 47 14.6	•6586	12	42
	9 2 8	24 54.93	•7016			12	42
Mar. 4	9 0 50	~		100 10 29.9	•6687	10.	43
	9 20 50	33 47.16	•7209			18	43
. 5	848 т	35 52.63	•6933	•		18	44
	9 8 43			99 47 39'5	•6910	10	44
- 6	8 57 18	37 58.38	•7037	* *		16	45
	9 13 12	•		99 25 17.0	•6965	10	45
9	8 20 25	44 2.51	•6687			24	46
	8 49 43			98 21 51.3	•6953	12	46
12	8 25 49	3 49 55.75	+8.6811			20	47
	8 46 5			97 22 16.9	+9.4038	14	47

Catalogue of the Mean Right Ascensions and North Polar Distances of the Stars compared with Wilmot's Comet.

Star's No.	·	Mag- nitude.	R.A. 1845, Jan. 1.	Annual Precess.	No. of Obs.	N.P.D. 1845, Jan. 1.	Annual Precess.	
. 1			h m s	+		128 3 11.8	<u> </u>	•
_		•		4.014	9	,	•	3
2		8 ·	20 16 24.71	4.030	7	130 54 46.4	11.54	5
3		9	17 15.28	4.035	4	131 8 20.3	11.30	4
4	Lacaille 8497	7	27 22.86	4.026	11	131 45 30.7	12.03	6
6			51 43.50	3.973	8	132 40 48.2	13.66	4
5	Lacaille 8638	8	20 52 0.57	4.002	7	133 35 43'9	13.68	9
7	- ,	9.	21 5 55.50	3.947	9	133 35 42.7	14.54	6
. 8	Lacaille 8822	7.8	19 49*58	3.906	15	134 10 41.8	12.35	10
.9		9	21 44 27.08	3.804	8	134 31 37.3	16.62	5
. 10		8	22 7 5.47	3.692	ΙÓ	134 30 20.8	17.67	8
12	δ Gruis		20 28.28	3.624	15	134 32 21.6	18.19	5
11	B.A.C. 7834	7	21 25.28	3.626	6	134 53 9.6	18.53	6
13	∂ Gruis		22 58 7.42	3.419	14	134 21 20.5	19.33	12
14	B.A.C. 8186	8	23 22 10.92	3.274	20	132 50 20.8	19.78	15
16		8	33 12.44	3.513	13	132 26 21.0	19.92	11

Star's No.		Mag- nitude.	R.A. 1845, Jan. 1.	Annual Precess.	No. of Obs.	N.P.D. 1845, Jan. 1.	Annual No. of Precess. Obs.
			h m s	•+		0 / //	"
15	B.A.C. 8242	7.8	23 33 41.93	3.514	6	133 7 34.5	19.92 4
17	Lacaille 9739	8	o 1 5.62	3.062	9	130 35 58.4	20.05 8
18	Lacaille 9757	8	3 26.93	3.023	6	131 14 6.9	20.05 9
19	Lacaille 50	7.8	13 10.40	3.009	9	130 5 57.2	20.02 6
20	Lacaille 126	8.9	26 2.46	2.945	7	129 32 24.9	19.93 2
21	B.A.C. 144	8	27 5.20	2.944	5	128 51 4.8	19.91 8
22	Lacaille 216	8	40 6.80	2.890	7	127 46 21.4	19.75 13
23	Lacaille 304	7.8	0 59 0.63	2.827	10	125 37 42.6	19.39 10
24		8	1 14 28.18	2.782	14	124 2 48.8	19.01 7
25		7	19 49.64	2.770	13	123 20 55.0	18.85 9
26		8.9	21 45.06	2.769	5	122 50 33.5	18.79 7
28	•	9	36 43.60	2.747	7	120 35 45'3	18.59 3
27	•	9	36 53.32	2.734	6	121 30 32.8	18.59 8
29	Lacaille 535	8	42 53.18	2.738	13	119 48 42.7	18.07 6
30		9.10	48 28.39	2.740	6	118 28 28.1	17.85 6
3 I		9	52 43.81	2.732	6	118 13 34.8	17.68 5
32		8.9	1 55 31.27	2.734	7	117 29 29.4	17.26 6
33		10	2 6 29.92	2.728	7	116 3 43.3	17.08 3
34		9	12 57.26	2.726	4	115 11 41.4	16.77 2
35	Lacaille 787	7.8	27 31.74	2.736	11	112 36 34.1	16.04 8
36		8.9	31 30.45	2.744	9	111 42 42'1	15.83 10
37		8.9	35 31.75	2.745	4	111 12 3.4	15.61 5
39	Lalande 562 1	8	2 54 9°97	2.774	6	107 51 1.0	14.24 4
40		9	3 2 6.59	2.786	6	106 36 32.0	14.02
41	Lalande 6492	7.8	22 50.24	2.847	13	102 10 42.9	12.40 10
42	Weisse iii, 478	8	25 51.45	2.854	7.	101 42 9.1	12.49 5
44	Weisse iii, 650	8	33 53.66	2.887	12	99 41 43.9	11.94 2
43	δ Eridani	3*4	35 49.58	2.874	9	100 17 31.5	11.80 3
45	Weisse iii, 746	7	38 28.57	2.888	12	99 29 49 3	11.61 2
46	Lalande 7246	7	47 10.74	2.906	10	98 22 1.6	10.98 6
47	Lalande 7370	-	3 50 37.19	2.904	7	97 23 33.2	10.73 4

On the Form of the Planet Saturn. By the Rev. R. Main.

Sir W. Herschel, from repeated estimations with various telescopes made with the greatest care (and assuredly with the most practised eye and unbiassed judgment ever brought to such a task), convinced himself that the figure of *Saturn* was not elliptical, but "like a parallelogram with the corners rounded off." He was also